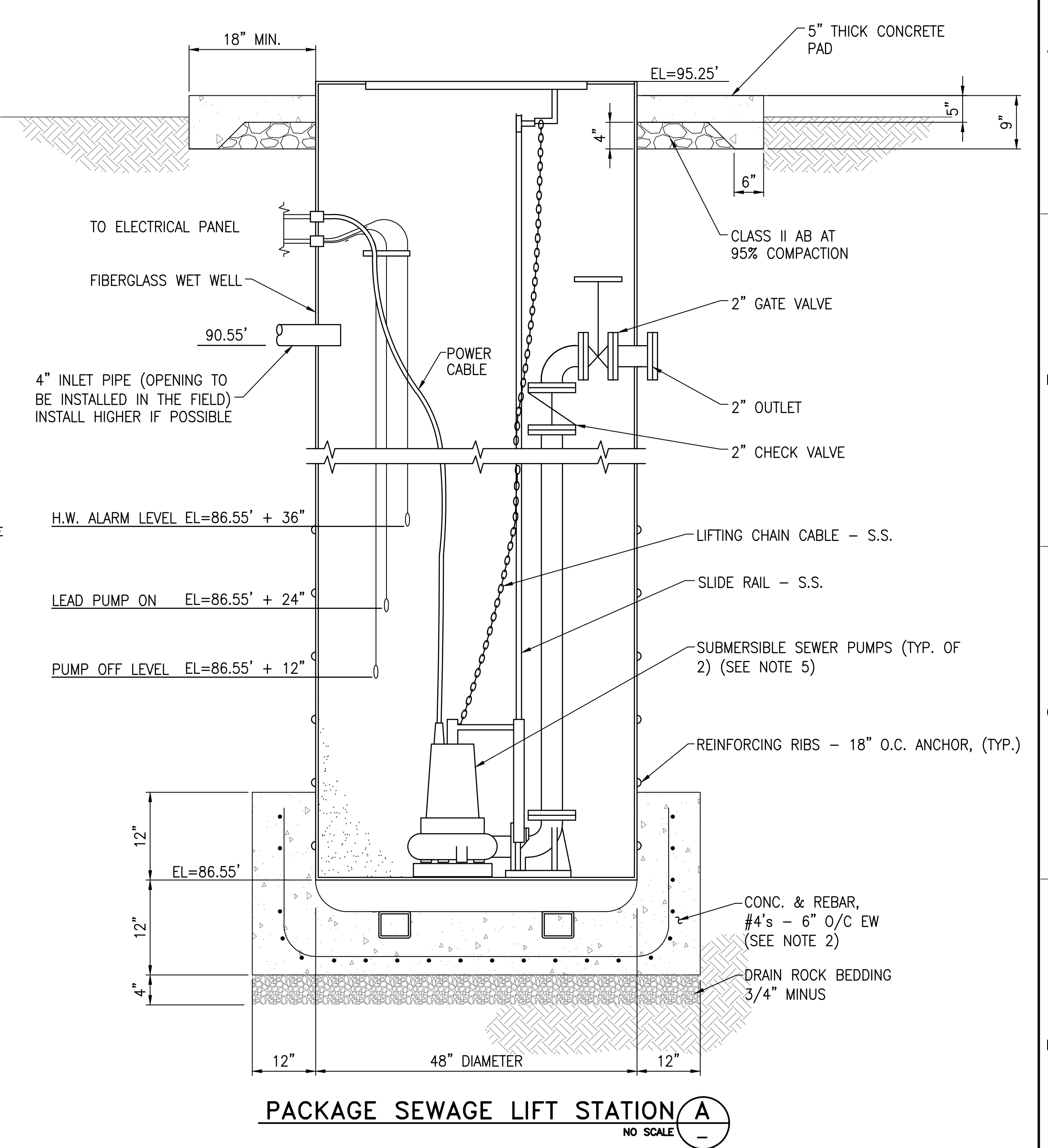
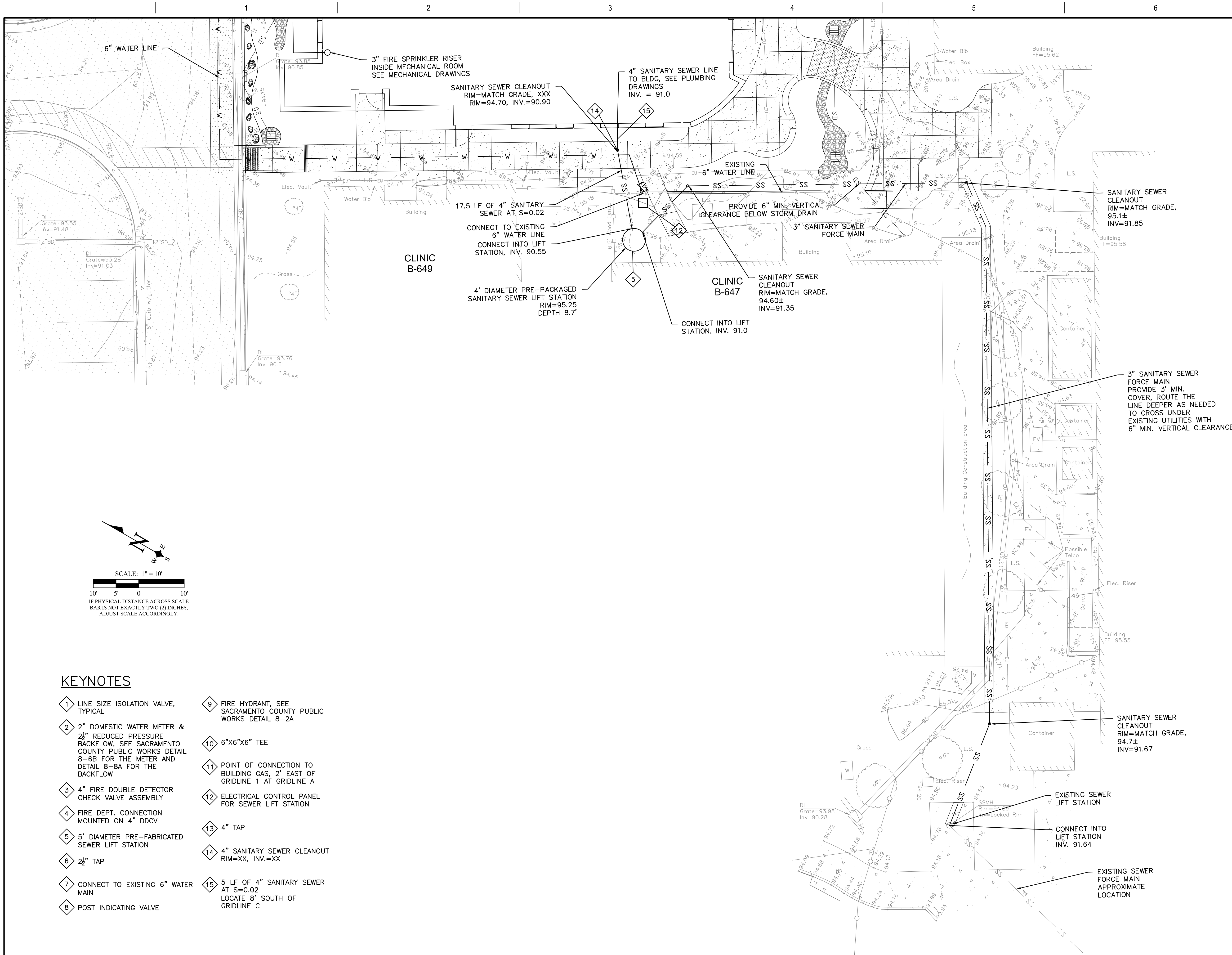


1. ALL EXCESS SPOILS AND DEMOLITION WASTE SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR. CLEAN TOP SOIL MATERIAL MAY BE REUSED AS PART OF NEW LANDSCAPING. A NET EXPORT OF SOIL IS ANTICIPATED.
2. VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO STARTING WORK. LOCATE UTILITIES WHERE SHOWN ARE FROM SCHEMATIC MAPS AND FIELD SURVEY. ADDITIONAL ELECTRICAL, COMMUNICATION, AND OTHER UTILITIES MAY BE PRESENT IN THE WORK AREA. TAKE ALL PRECAUTIONS NEEDED TO AVOID DAMAGE TO UTILITIES. POTHOLE AND LOCATE EXISTING UTILITY LINES.
3. UTILITY OUTAGES SHALL BE KEPT TO A MINIMUM AND SHALL BE ALLOWED ONLY WITH APPROVAL FROM THE CONTRACTING OFFICER.
4. CLEAR AND GRUB WITHIN THE LIMITS OF CONSTRUCTION AS NEEDED FOR NEW WORK.
5. AFTER REMOVAL OF EXISTING UTILITY PIPES (WATER, SEWER, ETC.) UNDER THE BUILDING PAD, BACKFILL TRENCHES WITH ENGINEERED FILL AND RECOMPACT AS PER THE GEOTECHNICAL REPORT RECOMMENDATIONS.
6. VERIFY EXTENT OF DEMOLITION WITH OWNER AND ENGINEER PRIOR TO STARTING WORK.
7. CONCRETE REMOVAL SHALL BE TO THE NEAREST CONSTRUCTION JOINT BEYOND WORK LIMITS SHOWN.
8. REPLACE THAT NOT ALL IRRIGATION LINES ARE SHOWN. NOTIFY ALL IRRIGATION LINES DAMAGED BY CONSTRUCTION. DURING CONSTRUCTION, PROVIDE WATER AS NEEDED TO ANY PLANTS, GRASS OR TREES THAT ARE TO REMAIN.
9. EXISTING DEMOLITION LIMITS DO NOT SHOW ADDITIONAL PAVEMENT OR LANDSCAPING THAT WILL NEED TO BE REPLACED FOR UTILITY TRENCHING BEYOND THE GENERAL WORK AREA.
10. EXISTING WATER LINES UNDER THE PROPOSED BUILDING WILL NEED TO BE RELOCATED BY THE CONTRACTOR AS THE FIRST CROP OF WORK. RELOCATE ALL EXISTING WATER LINES IN SERVICE AT ALL TIMES EXCEPT FOR MINIMAL SHUT OFFS WHILE NEW CONNECTIONS ARE BEING MADE BETWEEN EXISTING AND NEW.
11. THE CONTRACTOR SHALL RECYCLE ALL DEMOLITION WASTE WHERE POSSIBLE SUCH AS FOR CONCRETE, ASPHALT, WOOD, GLASS AND OTHER RECYCLABLE PRODUCTS. PROVIDE PROOF OF RECYCLING QUANTITIES TO THE VA.

100% CONSTRUCTION DOCUMENTS

		CONSULTANTS:				ARCHITECT/ENGINEERS:		<div>Drawing Title</div> <div>DEMOLITION PLAN</div> <div>Approved: Project Director</div>		<div>Project Title</div> <div>MEDICAL SPECIALTIES BUILDING 648</div> <div>Location V.A. Mather</div> <div><div>Date05/12/2014</div><div>CheckedS.T.</div><div>DrawnR.T.</div></div>		<div>Project Number</div> <div>612-122</div> <div>Building Number</div> <div>BUILDING 648</div> <div>Drawing Number</div> <div>C-1</div> <div>Dwg. of</div>		<div>Office of Facilities Management</div> <div> Department of Veterans Affairs</div>	
Revisions:		Date													

three eighths inch = one foot
one and one half inches = one foot
one inch = one foot
one half = one foot
three quarters inch = one foot
one half inch = one foot
one quarter inch = one foot
one eighth inch = one foot



- NOTES:**
1. PACKAGED SEWER LIFT STATION TO BE 48" DIAMETER, 8.7' TOTAL DEPTH, FIBERGLASS BASIN. MANUFACTURED BY LIBERTY PUMPS, ROMTEC, OR APPROVED EQUAL. PROVIDE STEEL ACCESS DOOR. PACKAGE SHALL INCLUDE ALL NECESSARY CONTROLS, PIPING, PUMPS, WET WELL, ACCESS HATCH, ELECTRICAL CONTROLS ETC.
 2. INSTALLATION OF CONCRETE BASE & REBAR ARE NOT PART OF THE MANUFACTURED PACKAGE, AND SHALL BE PROVIDED FOR BY THE CONTRACTOR.
 3. REDUNDANT OFF LEVEL SHALL NOT FALL BELOW TOP OF PUMP (IF A PUMP OTHER THAN THE ONE SPECIFIED IS PURCHASED, CHECK TO ENSURE THIS REQUIREMENT IS MET).
 4. ALL PARTS INSIDE THE LIFT STATION SHALL BE STAINLESS STEEL, INCLUDING: NUTS, BOLTS, FASTENERS, ETC.
 5. PUMPS SHALL BE MIN. 2HP, 3 PHASE POWER SOURCE OR APPROVED EQUAL. SUBMERSIBLE PUMPS SHALL MEET Q=45 GPM, TDH=18.4'. PROVIDE MANUFACTURER'S CALCULATIONS AND CUT SHEETS OF THE SYSTEM.

KEYNOTES

1. LINE SIZE ISOLATION VALVE, TYPICAL
2. 2" DOMESTIC WATER METER & 2 1/2" REDUCED PRESSURE BACKFLOW, SEE SACRAMENTO COUNTY PUBLIC WORKS DETAIL 8-6B FOR THE METER AND DETAIL 8-8A FOR THE BACKFLOW
3. 4" FIRE DOUBLE DETECTOR CHECK VALVE ASSEMBLY
4. FIRE DEPT. CONNECTION MOUNTED ON 4" DDCV
5. 5" DIAMETER PRE-FABRICATED SEWER LIFT STATION
6. 2 1/2" TAP
7. CONNECT TO EXISTING 6" WATER MAIN
8. POST INDICATING VALVE
9. FIRE HYDRANT, SEE SACRAMENTO COUNTY PUBLIC WORKS DETAIL 8-2A
10. 6"x6"x6" TEE
11. POINT OF CONNECTION TO BUILDING GAS, 2' EAST OF GRIDLINE A
12. ELECTRICAL CONTROL PANEL FOR SEWER LIFT STATION
13. 4" TAP
14. 4" SANITARY SEWER CLEANOUT RIM=XX, INV.=XX
15. 5' LF OF 4" SANITARY SEWER AT S=0.02 LOCATE 8' SOUTH OF GRIDLINE C

SITE FIRE NOTES

1. CURBS SHALL BE PAINTED RED 15' ON EACH SIDE OF FIRE DEPARTMENT CONNECTION ASSEMBLY.
2. AUTOMATIC SPRINKLER SYSTEMS ARE REQUIRED FOR THIS PROJECT. INSTALLATIONS SHALL COMPLY WITH THE NATIONAL FIRE CODES STANDARD(S) 13, 24. PLANS MUST BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO STARTING WORK AND PERFORMANCE OF ANY INSPECTIONS OR TESTS. THE BUILDING'S SPRINKLER SYSTEM MUST BE INDEPENDENT OF ALL OTHERS. IF THE UNDERGROUND AND OVERHEAD PORTIONS OF THESE SYSTEMS ARE SUBCONTRACTED TO DIFFERENT COMPANIES, BOTH ARE REQUIRED TO SUBMIT SEPARATE PLANS AND MAKE ARRANGEMENTS FOR ALL PERMITS, INSPECTIONS AND TESTS.
3. THE DOUBLE DETECTOR CHECK ASSEMBLY AND POST INDICATING VALVE SHOWN ON THE PLAN SHALL BE MONITORED, PROVIDE 1" CONDUIT AND WIRING BACK TO THE FIRE ALARM CONTROL PANEL IN THE NEW MEDICAL SPECIALTIES BUILDING. COORDINATE WITH ELECTRICAL WORK.

SITE FIRE NOTES, CONT.

4. THE WATER MAIN SERVICING THIS PROJECT MUST BE SIZED AND INTERCONNECTED IN ORDER TO PROVIDE AN ADEQUATE WATER SUPPLY FOR FIRE SUPPRESSION SERVICES. A PROFESSIONAL ENGINEER SHALL DETERMINE THE ADEQUACY OF DESIGN. SITE FIRE PIPING TO BE PVC C900, CLASS 200. METAL PIPE AT BACKFLOW DEVICES OR METERS SHALL BE WRAPPED IN 8 MIL. POLYETHYLENE.
5. ALL WATERLINE PIPING TO HAVE THRUST BLOCKS OR RESTRAINED JOINTS AT ALL BENDS, TEES, AND VALVES.

WATER NOTES

1. MAINS 4" AND LARGER SHALL BE PVC C900 CLASS 200, POLYETHYLENE WRAPPED DUCTILE IRON OR FUSION WELDED HDPE. MAINS OR LATERALS UNDER 4" SHALL BE PVC SCH 80, POLYETHYLENE WRAPPED DUCTILE IRON OR FUSION WELDED HDPE. SMALLER DOMESTIC LATERALS CAN ALSO BE SOFT COPPER, TYPE K. WATERLINES SHALL HAVE 3" MIN. COVER.
2. ALL WATER POINTS OF CONNECTION ARE 5' OUTSIDE OF BUILDING WALLS.

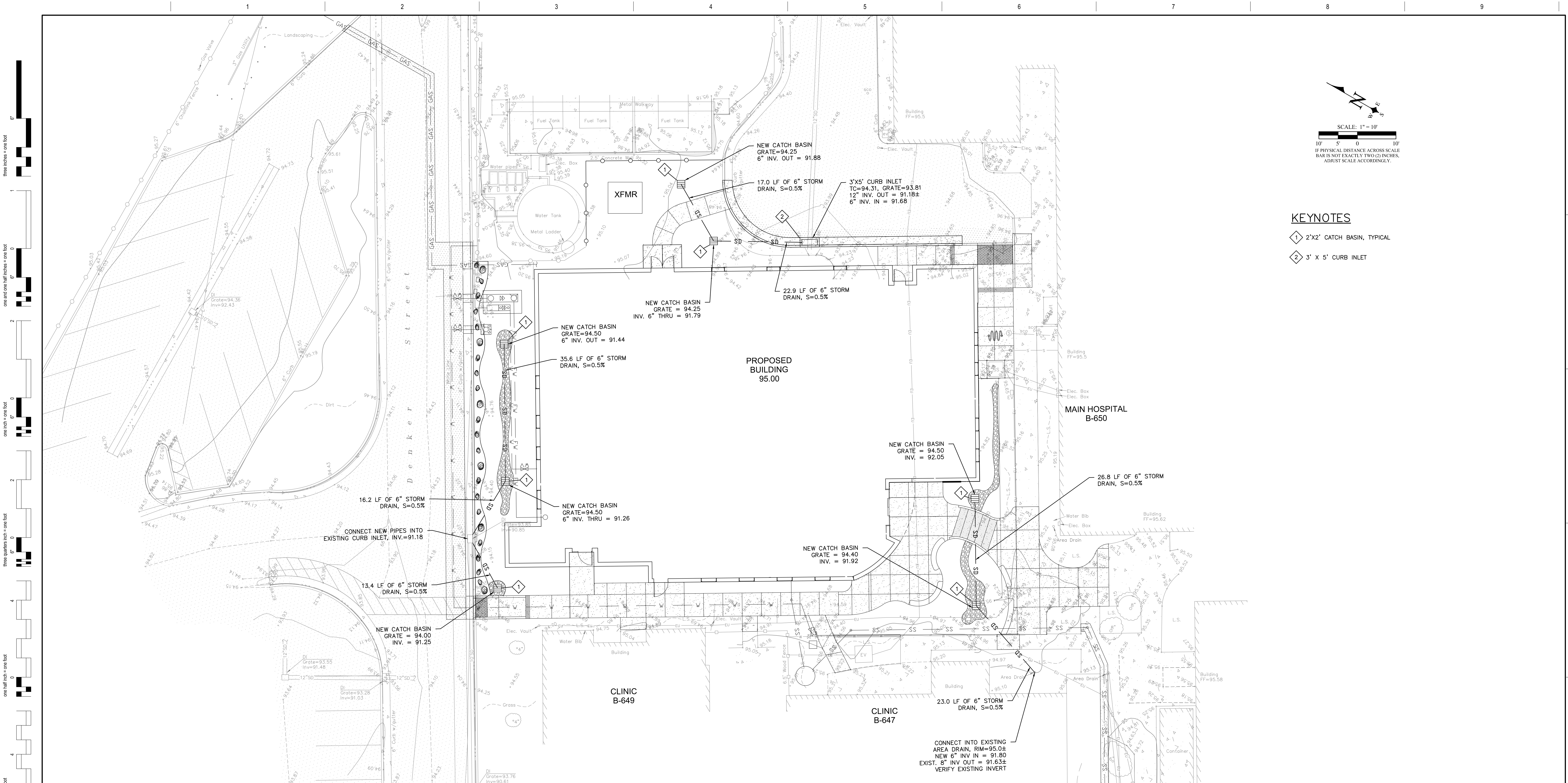
SEWER NOTES

1. GRAVITY SANITARY SEWER LINES SHALL BE PVC SDR 35. SEWER FORCE MAIN SHALL BE PVC SDR 35 OR DUCTILE IRON. SEWER LATERALS SHALL HAVE 3' MIN. COVER FROM THE TOP OF PIPE TO FINISHED GRADE WHEREVER POSSIBLE. AT UTILITY CROSSINGS, PROVIDE 24" MIN. VERTICAL CLEARANCE (FOR 10' HORIZONTALLY) BELOW WATERLINES AND 6" MIN. CLEARANCE FROM ALL OTHER IMPROVEMENTS AND UTILITIES.
2. FOR GRAVITY SEWER, CONSTRUCT STARTING AT LOWEST DOWNSTREAM POINT. POTHOLE AND VERIFY POINT OF CONNECTION TO EXISTING SEWER PRIOR TO STARTING CONSTRUCTION.
3. SEWER WET WELL TO BE PRE-FABRICATED CONCRETE OR FIBERGLASS, 5' DIAMETER, WITH DUAL SUBMERSIBLE WASTEWATER PUMPS BY JENSEN PRE-CAST, ROMTEC UTILITIES OR EQUAL. PUMP SIZING TBD.

GAS NOTES

1. CONTRACTOR TO POTHOLE AND FIELD VERIFY LOCATION OF EXISTING GAS LINES PRIOR TO STARTING WORK. EXACT LOCATIONS ARE UNKNOWN. CONTRACTOR TO TEST FOR GAS PRESSURE AND PROVIDE TO ENGINEER TO VERIFY GAS LINE SIZING.
2. GAS LINE SHALL BE STEEL OR PLASTIC, PROVIDE 3' MIN. COVER.
3. EXISTING GAS PRESSURE IS APPROXIMATELY 5 PSI.

CONSULTANTS:  TULLY CONSULTING GROUP CIVIL ENGINEERING & STORMWATER SOLUTIONS 180 SOUTH FIRST STREET, SUITE 9 DIXON, CA 95620 (707) 693-1926 (707) 471-0318 FAX			ARCHITECT/ENGINEERS:  HILLIARD ARCHITECTS, INC 251 Post Street, Suite 620 San Francisco, CA 94108-5017 Tel 415 989 6400, Fax 415 989 3056 www.HilliardArchitects.com	Drawing Title SITE UTILITY PLAN, CONT. Approved: Project Director	Project Title MEDICAL SPECIALTIES BUILDING 648 Location V.A. Mather Date 05/12/2014 Checked S.T. Drawn R.T.	Project Number 612-122 Building Number BUILDING 648 Drawing Number C-4.1 Dwg. of	Office of Facilities Management 
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STORM DRAINAGE NOTES

1. CATCH BASINS AND CURB INLETS SHALL BE JENSEN PRECAST, OR EQUAL, #20 OR #25 RATED IN PAVED AREAS, HEAVY DUTY CAST IRON FRAMES AND GRATES.
2. ALL DRAINAGE PIPING SHALL HAVE 36\"/>
3. GROUT SEAL LOCATIONS WHERE NEW STORM DRAINAGE PIPES TIE INTO EXISTING DRAINAGE STRUCTURES
4. CONSTRUCT DRAINAGE PIPING STARTING AT LOWEST DOWNSTREAM POINT. POT HOLE AND VERIFY POINT OF CONNECTION TO EXISTING STORM DRAINAGE PRIOR TO STARTING CONSTRUCTION.
5. PIPE DISTANCES SHOWN ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
6. PROVIDE MIN. 2' X 4' CONCRETE SPLASH BLOCKS AT ALL ROOF LEADERS THAT ARE TO BE ABOVE GRADE. SEE PLUMBING DRAWINGS FOR LOCATIONS. ALL OTHER ROOF LEADERS AS SHOWN ARE TO BE DIRECTLY CONNECTED TO THE STORM DRAIN SYSTEM.

CONSULTANTS:



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Drawing Title

STORM DRAIN SITE
PLAN

Approved: Project Director

Project Title

MEDICAL SPECIALTIES
BUILDING 648

Location V.A. Mather

Date 05/12/2014

Checked S.T.

Drawn R.T.

Project Number

612-122

Building Number
BUILDING 648

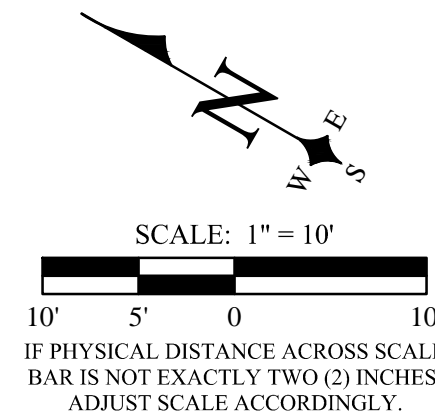
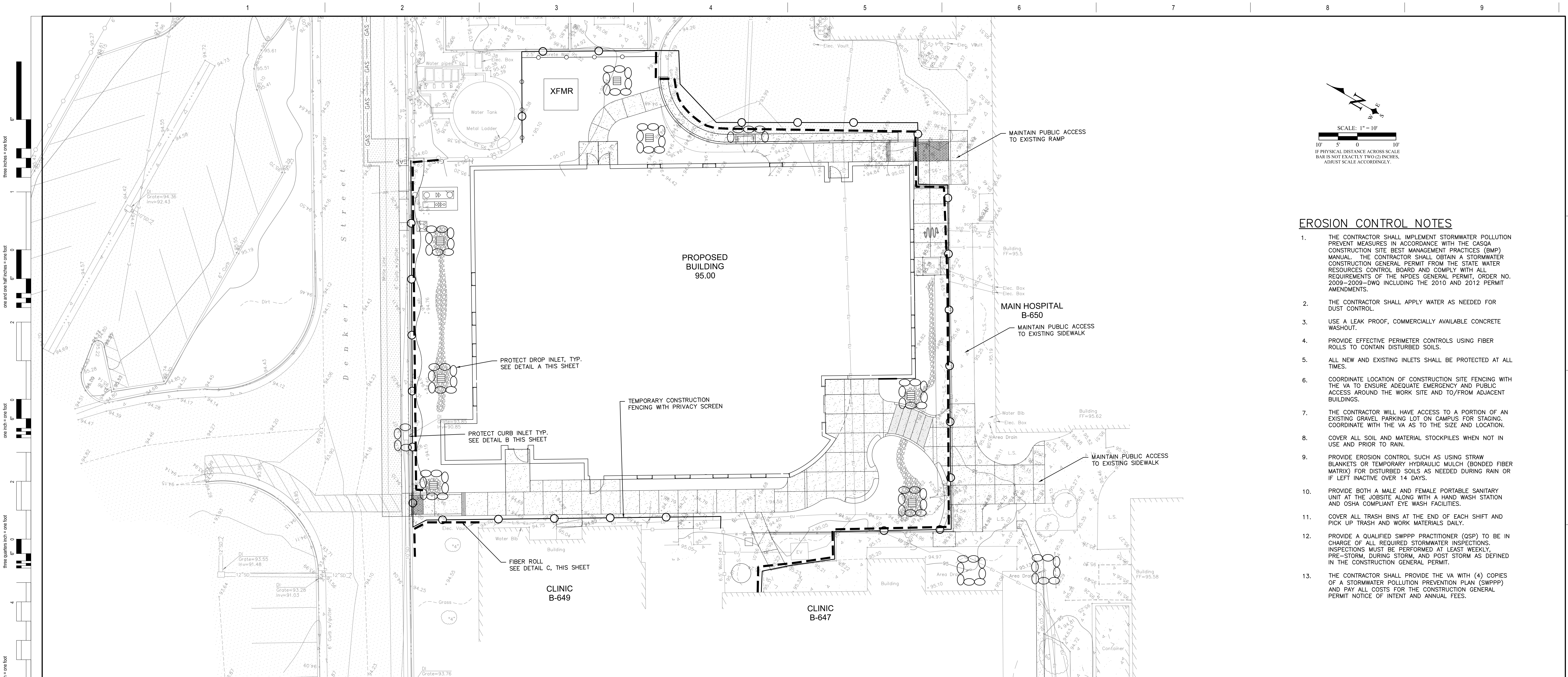
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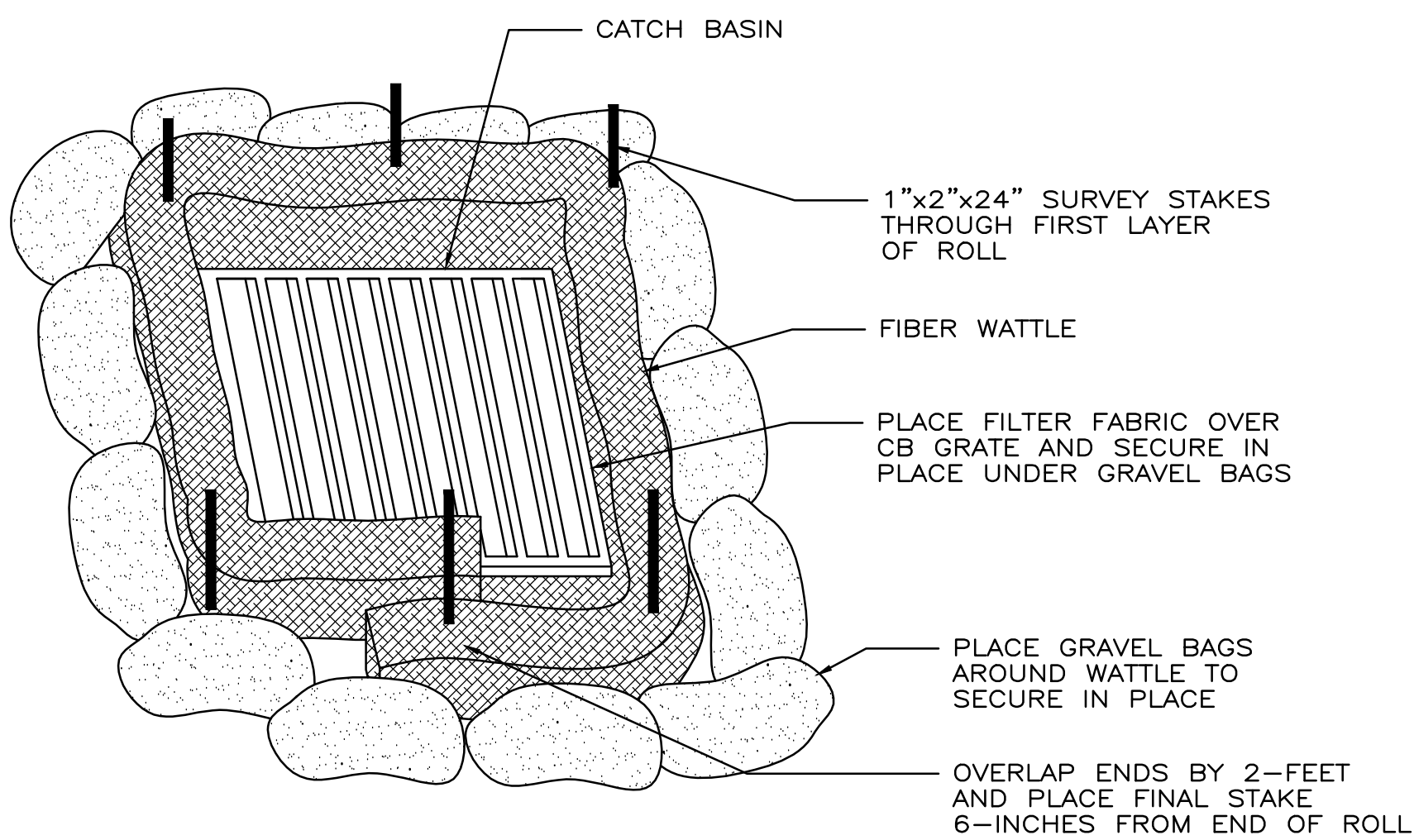
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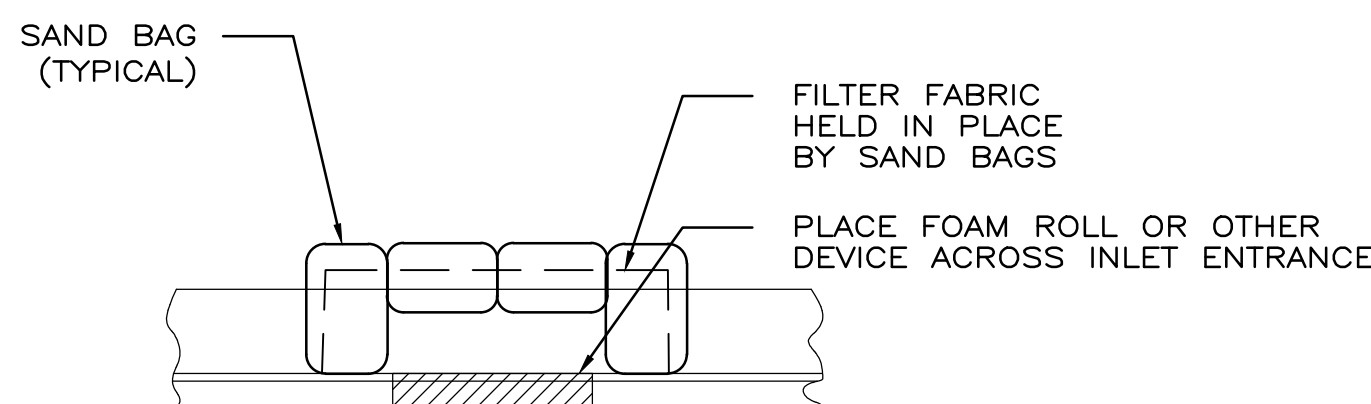


EROSION CONTROL NOTES

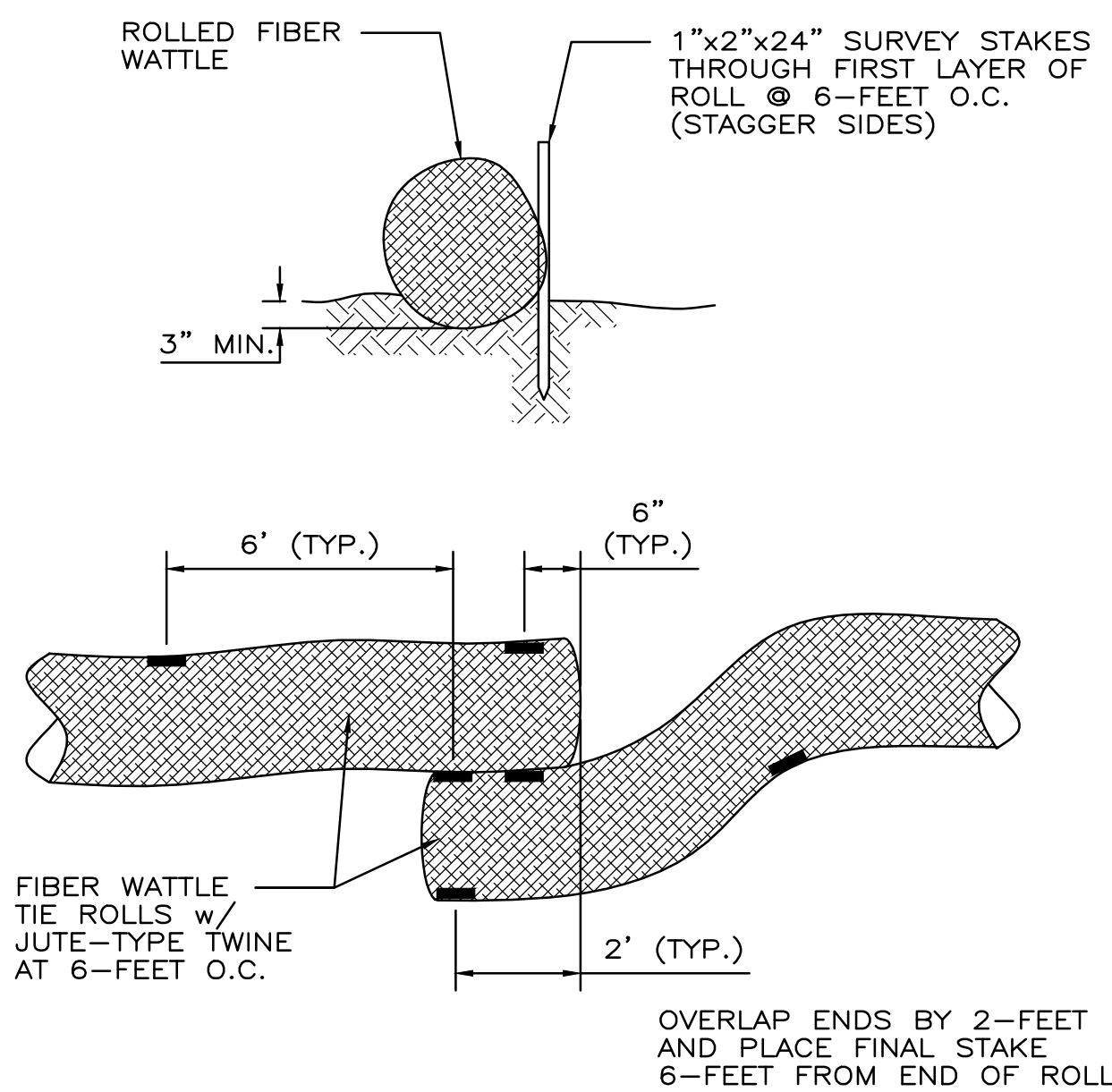
1. THE CONTRACTOR SHALL IMPLEMENT STORMWATER POLLUTION PREVENT MEASURES IN ACCORDANCE WITH THE CASQA CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL. THE CONTRACTOR SHALL OBTAIN A STORMWATER CONSTRUCTION GENERAL PERMIT FROM THE STATE WATER RESOURCES CONTROL BOARD AND COMPLY WITH ALL REQUIREMENTS OF THE NPDES GENERAL PERMIT, ORDER NO. 2009-2009-DWQ INCLUDING THE 2010 AND 2012 PERMIT AMENDMENTS.
2. THE CONTRACTOR SHALL APPLY WATER AS NEEDED FOR DUST CONTROL.
3. USE A LEAK PROOF, COMMERCIALY AVAILABLE CONCRETE WASHOUT.
4. PROVIDE EFFECTIVE PERIMETER CONTROLS USING FIBER ROLLS TO CONTAIN DISTURBED SOILS.
5. ALL NEW AND EXISTING INLETS SHALL BE PROTECTED AT ALL TIMES.
6. COORDINATE LOCATION OF CONSTRUCTION SITE FENCING WITH THE VA TO ENSURE ADEQUATE EMERGENCY AND PUBLIC ACCESS AROUND THE WORK SITE AND TO/FROM ADJACENT BUILDINGS.
7. THE CONTRACTOR WILL HAVE ACCESS TO A PORTION OF AN EXISTING GRAVEL PARKING LOT ON CAMPUS FOR STAGING. COORDINATE WITH THE VA AS TO THE SIZE AND LOCATION.
8. COVER ALL SOIL AND MATERIAL STOCKPILES WHEN NOT IN USE AND PRIOR TO RAIN.
9. PROVIDE EROSION CONTROL SUCH AS USING STRAW BLANKETS OR TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX) FOR DISTURBED SOILS AS NEEDED DURING RAIN OR IF LEFT INACTIVE OVER 14 DAYS.
10. PROVIDE BOTH A MALE AND FEMALE PORTABLE SANITARY UNIT AT THE JOBSITE ALONG WITH A HAND WASH STATION AND OSHA COMPLIANT EYE WASH FACILITIES.
11. COVER ALL TRASH BINS AT THE END OF EACH SHIFT AND PICK UP TRASH AND WORK MATERIALS DAILY.
12. PROVIDE A QUALIFIED SWPPP PRACTITIONER (QSP) TO BE IN CHARGE OF ALL REQUIRED STORMWATER INSPECTIONS. INSPECTIONS MUST BE PERFORMED AT LEAST WEEKLY, PRE-STORM, DURING STORM, AND POST STORM AS DEFINED IN THE CONSTRUCTION GENERAL PERMIT.
13. THE CONTRACTOR SHALL PROVIDE THE VA WITH (4) COPIES OF A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND PAY ALL COSTS FOR THE CONSTRUCTION GENERAL PERMIT NOTICE OF INTENT AND ANNUAL FEES.



DROP INLET PROTECTION (A) NO SCALE



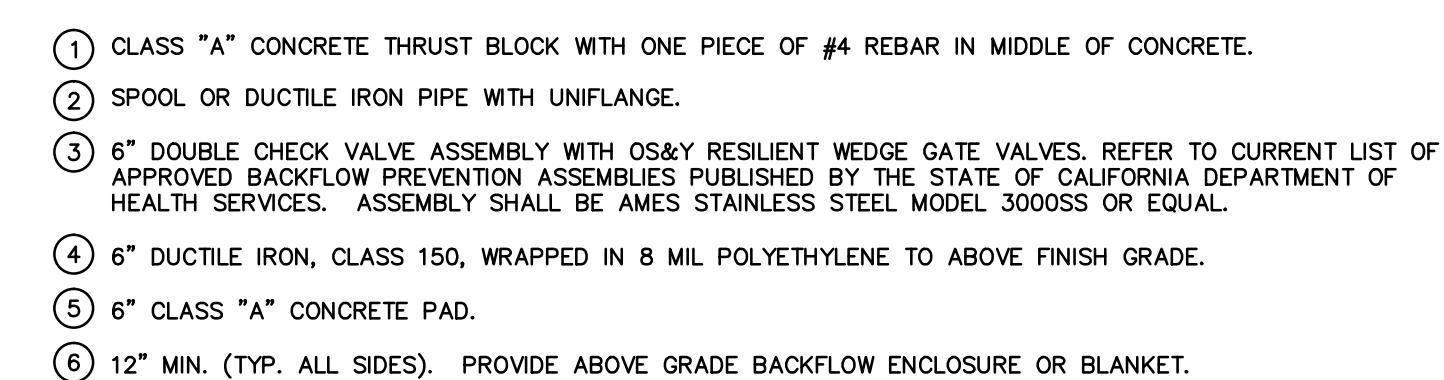
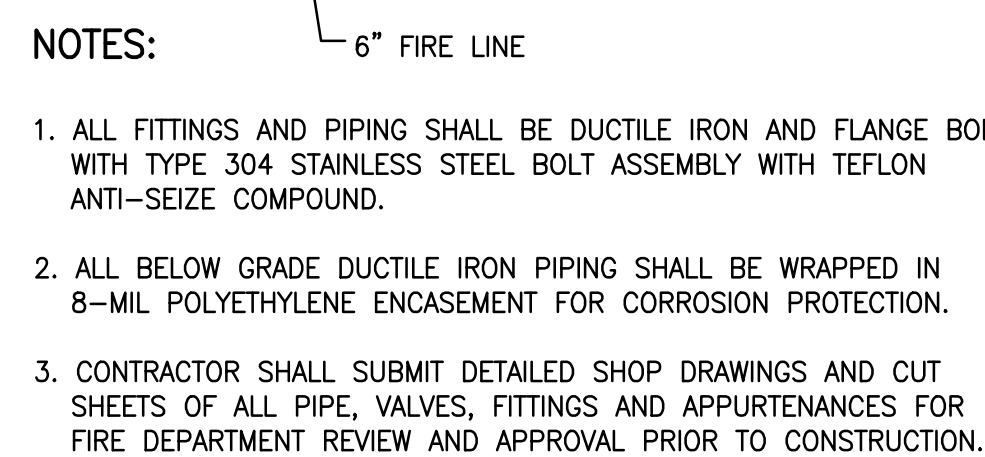
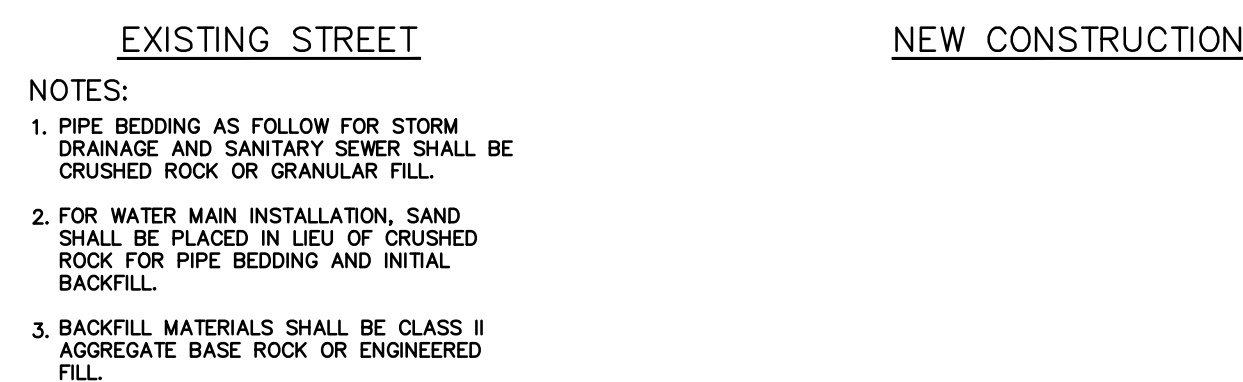
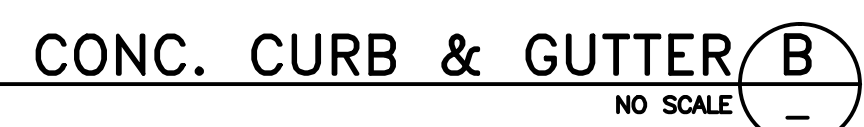
CURB INLET PROTECTION (B) NO SCALE



FIBER WATTLE (C) NO SCALE

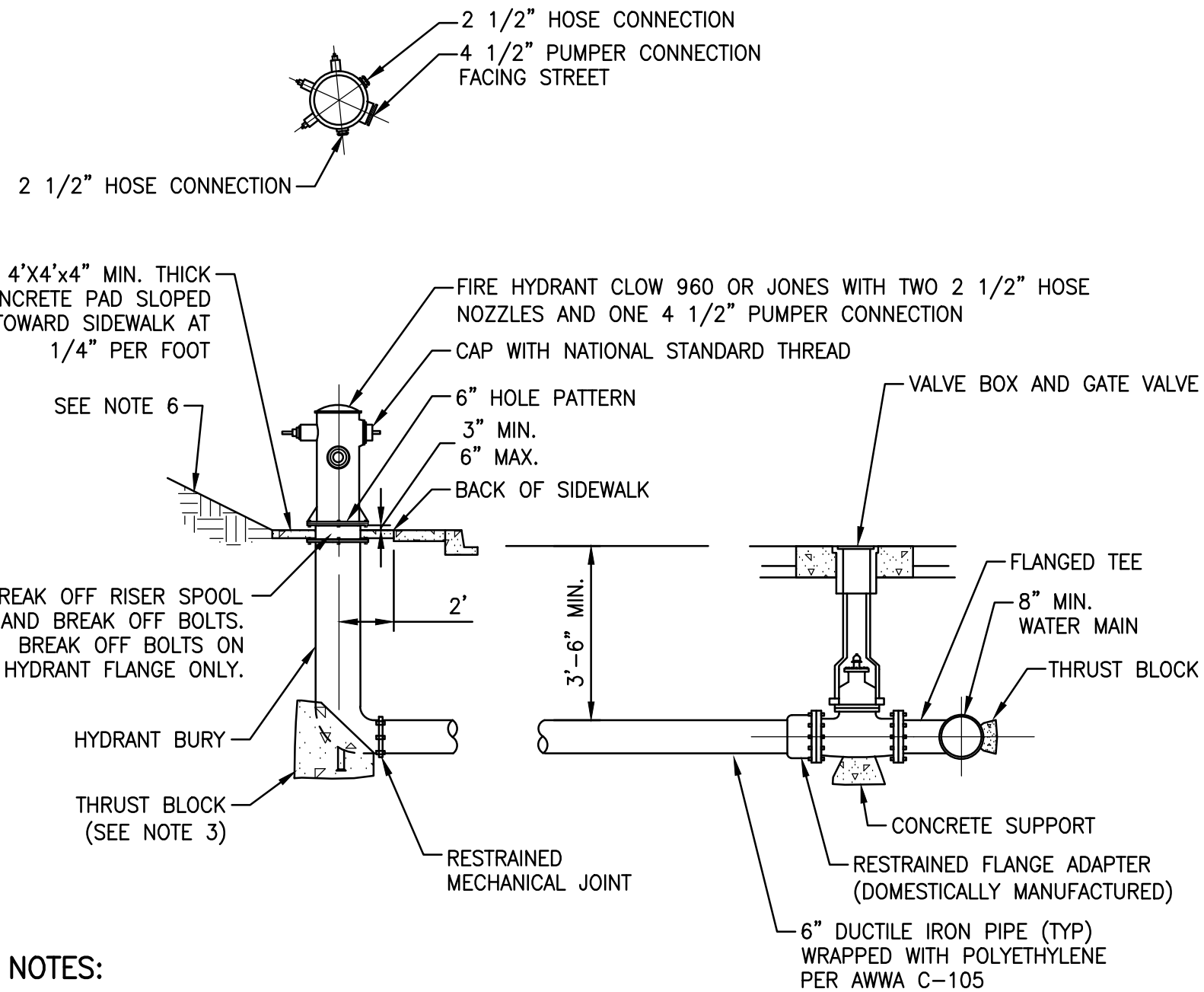
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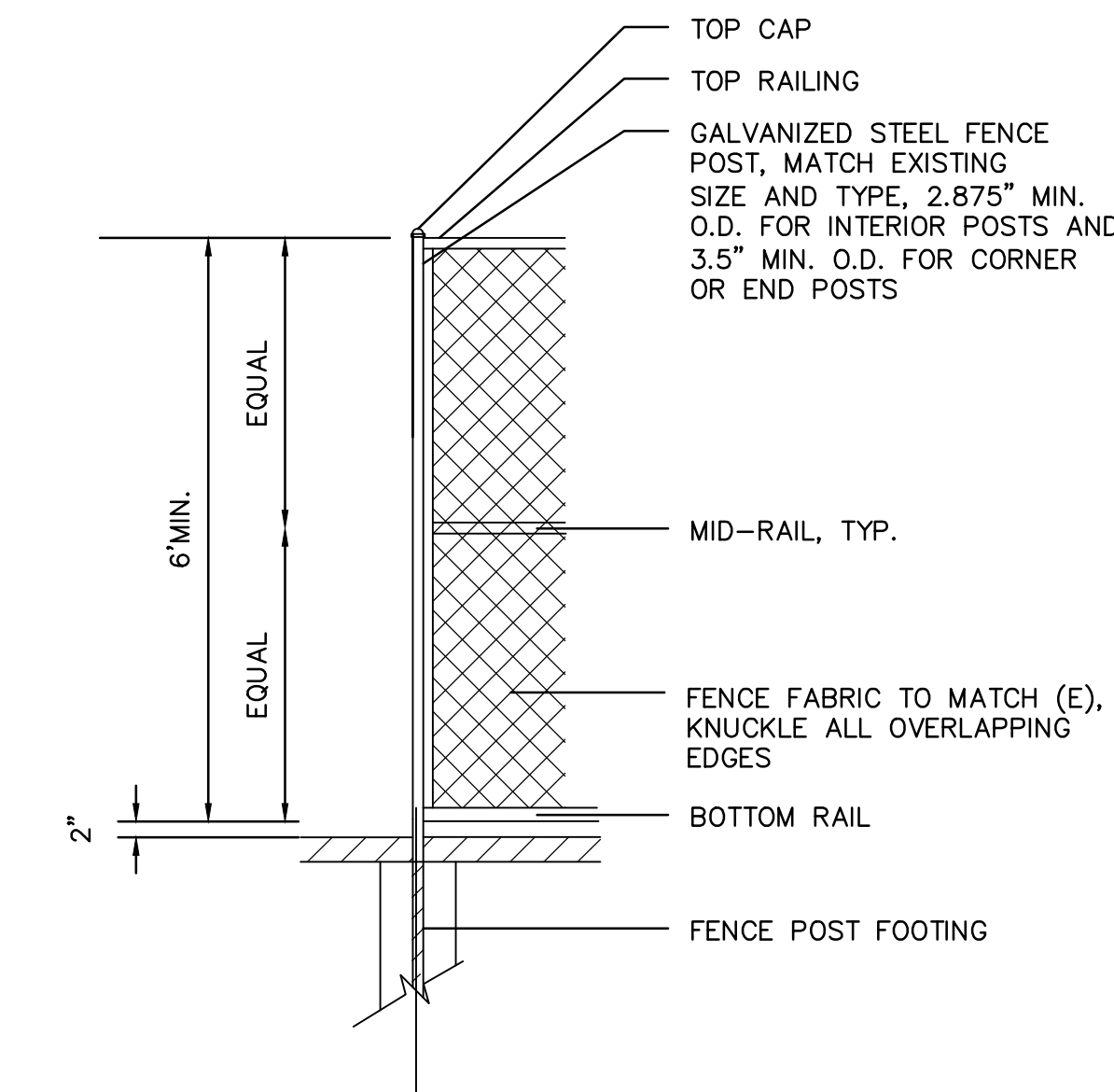
1. NUMBERS IN TABLE ABOVE ARE REQUIRED MINIMUM BEARING AREAS IN SQUARE FEET.
2. THRUST BLOCKS SHALL BE CONSTRUCTED OF CLASS "A" CONCRETE.
3. AREAS GIVEN ARE FOR CLASS 200 PIPE AT 200 PSI TEST PRESSURE IN SOILS WITH 1,200 PSF BEARING CAPACITY AT 3' DEPTH OF COVER. THE SITE SPECIFIC BEARING CAPACITY INCLUDES A SAFETY FACTOR OF 2.
4. THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED SOIL.
5. STRAPS USED FOR ANCHORING PIPE TO THRUST SHALL BE STEELLESS STEEL ONLY.
6. PIPE FITTINGS SHALL BE PROTECTED WITH MINIMUM 8 MIL VINYLNE IN ORDER THAT NO CONCRETE WILL TOUCH THE FITTING OR JOINT UPON THRUST BLOCK PLACEMENT.

three eighths inch = one foot
one eighth inch = one foot
one quarter inch = one foot
one half inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot
four inches = one foot
five inches = one foot
six inches = one foot
seven inches = one foot
eight inches = one foot
nine inches = one foot
ten inches = one foot
eleven inches = one foot
twelve inches = one foot
thirteen inches = one foot
fourteen inches = one foot
fifteen inches = one foot
sixteen inches = one foot
seventeen inches = one foot
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ninety three inches = one foot
ninety four inches = one foot
ninety five inches = one foot
ninety six inches = one foot
ninety seven inches = one foot
ninety eight inches = one foot
ninety nine inches = one foot
one hundred inches = one foot

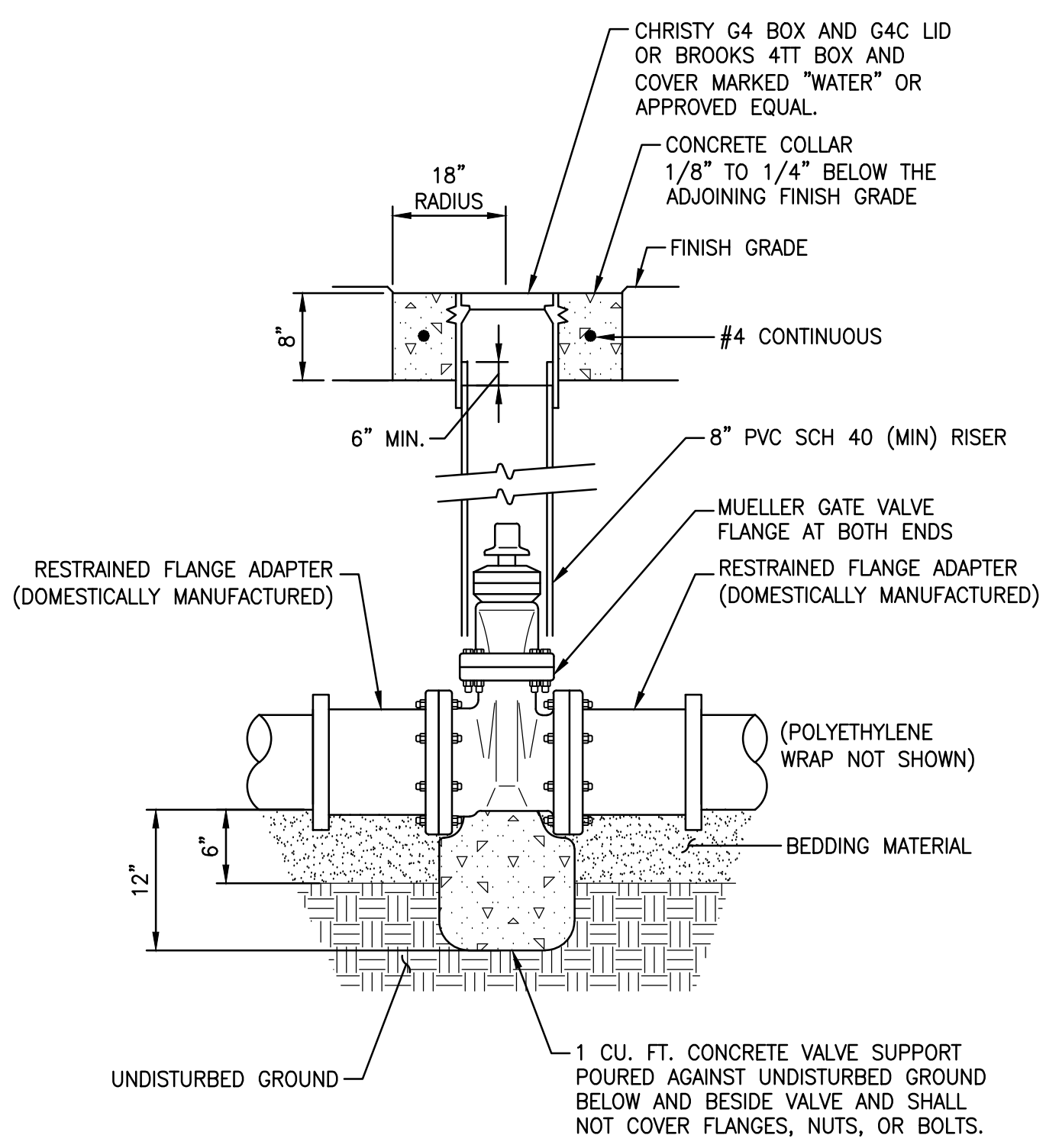


- NOTES:
1. A BLUE RETROREFLECTIVE MARKER SHALL BE LOCATED 2' OFF THE STREET CENTERLINE OR MEDIAN CURB TOWARDS THE HYDRANT.
 2. FIRE HYDRANTS SHALL BE PAINTED WHITE.
 3. THRUST BLOCKS PER CITY STANDARD DRAWINGS 5-02 AND 5-03.
 4. ALL PIPE AND FITTINGS SHALL BE RESTRAINED JOINTS.
 5. IN CASES WHERE SIDEWALK IS NOT CONTIGUOUS TO CURB, THE FIRE HYDRANT SHALL BE 30" MINIMUM BEHIND FACE OF CURB AND OUTSIDE SIDEWALK AREA.
 6. SLOPES BEHIND AND ADJACENT TO THE FIRE HYDRANT PAD SHALL NOT EXCEED 2:1 WITHOUT A MASONRY RETAINING WALL.
 7. "CONCRETE" SHALL BE PORTLAND CEMENT CONCRETE WITH A MINIMUM STRENGTH OF 3000 PSI.
 8. ALL UNDERGROUND FLANGE BOLT ASSEMBLIES SHALL BE TYPE 304 STAINLESS STEEL WITH TEFLON ANTI-SEIZE COMPOUND.

FIRE HYDRANT A
NO SCALE

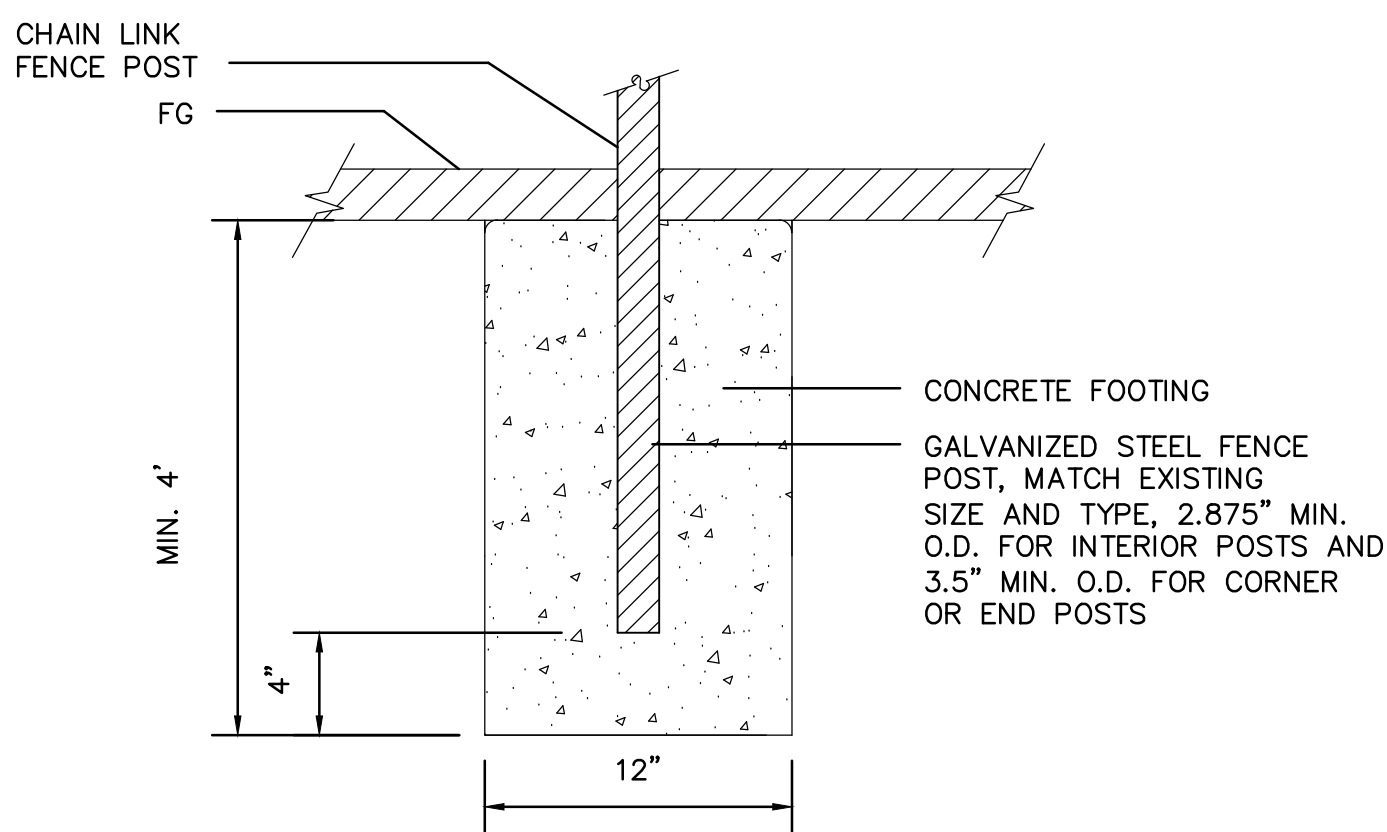


CHAIN LINK FENCE D
NO SCALE

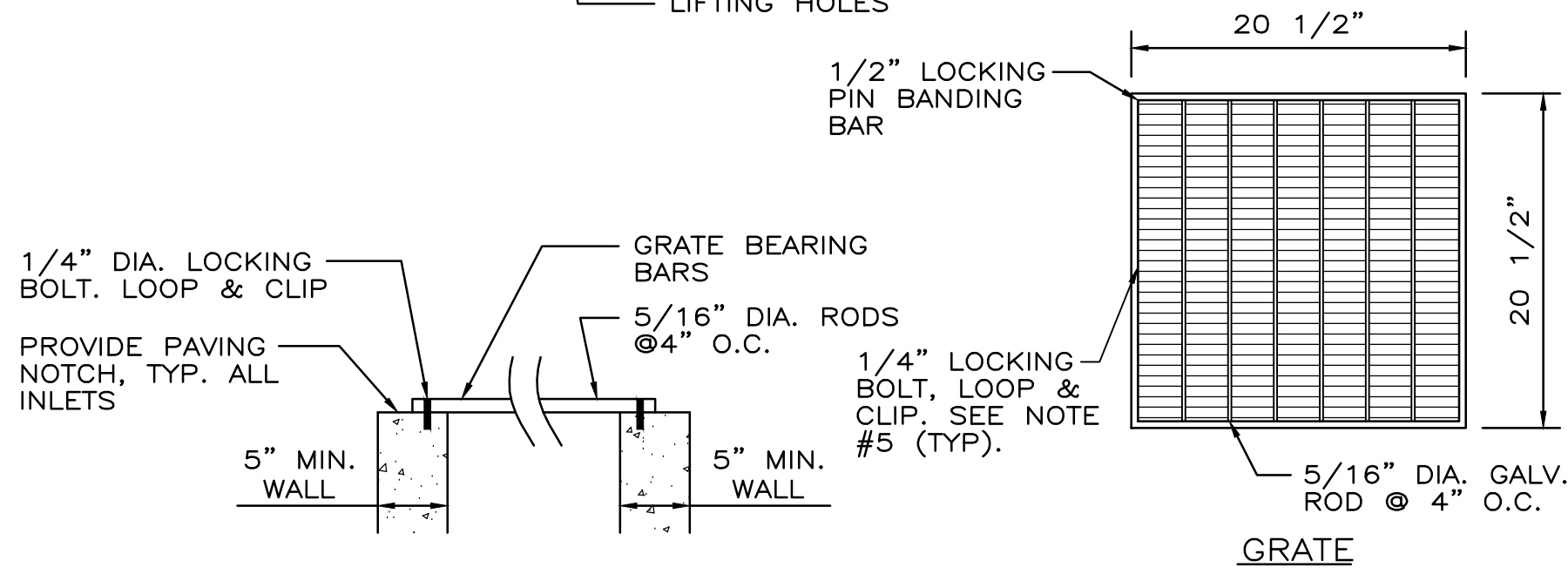
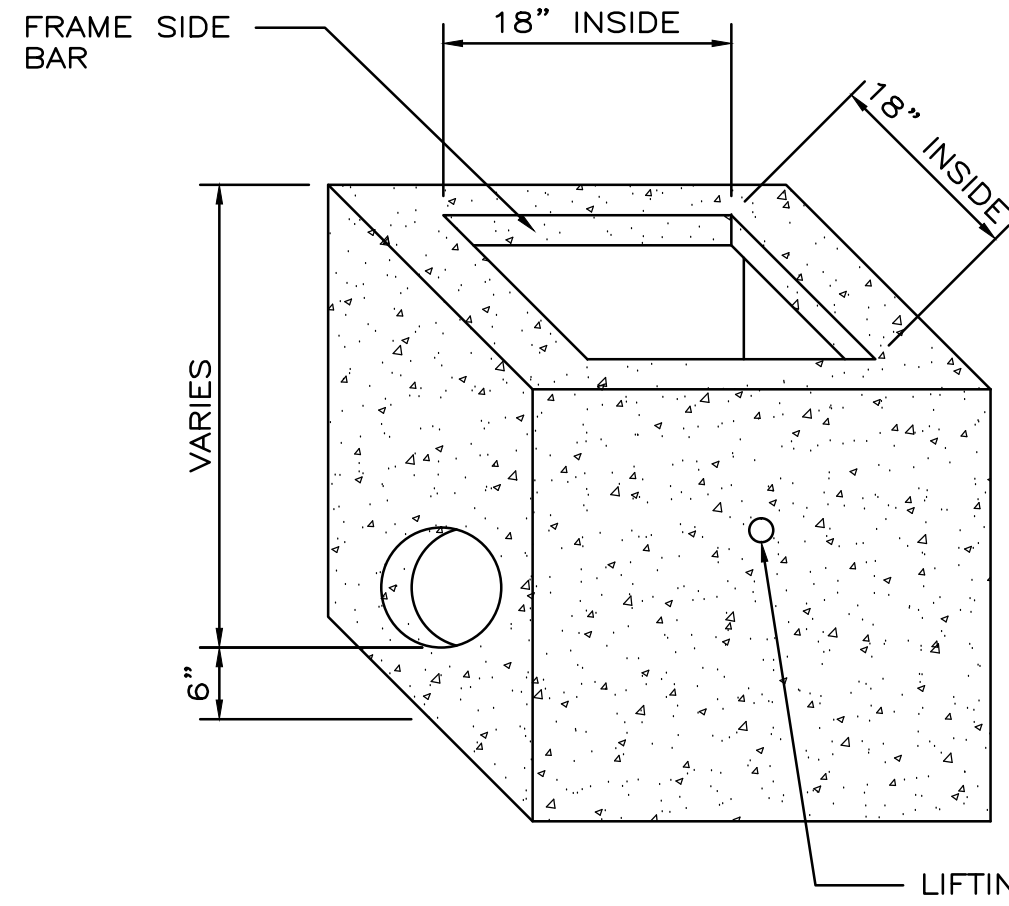


- NOTES:
1. GATE VALVES SHALL BE INSTALLED ON WATER MAINS OF 12" DIAMETER OR LESS.
 2. INSTALL LOCATING WIRE AT THE VALVE LOCATION
 3. "CONCRETE" SHALL BE PORTLAND CEMENT CONCRETE WITH A MINIMUM STRENGTH OF 3000 PSI.
 4. ALL UNDERGROUND FLANGE BOLT ASSEMBLIES SHALL BE TYPE 304 STAINLESS STEEL WITH TEFLON ANTI-SEIZE COMPOUND.

TYPICAL WATER GATE VALVE B
NO SCALE



TYP. FENCE FOOTING E
NO SCALE



PRE-CAST CONCRETE DROP INLET C
NO SCALE

- NOTES:
1. OPENINGS SHALL BE CAST AS REQUIRED TO MEET CONNECTING STORM DRAIN PIPING.
 2. CONCRETE SHALL BE 3,000 P.S.I. AT 28-DAY STRENGTH.
 3. WALLS SHALL BE REINFORCED WITH 4"x4" 10/10 WELDED WIRE MESH.
 4. WALLS SHALL BE 5" MIN. THICK AND BASE SHALL BE 6" THICK.
 5. GRATE SHALL BE SECURED TO FIELD INLET FRAME WITH TWO SETS OF 1/4" DIA. LOCKING STAINLESS STEEL BOLT, LOOP & CLIP OR OTHER APPROVED METHODS.
 6. FRAME AND GRATE SHALL BE BICYCLE PROOF AND HEAVY TRAFFIC RATED FOR H-20 LOADING AND HOT DIPPED GALVANIZED AFTER FABRICATION PER ASTM A-123 (SHOWN).

100% CONSTRUCTION DOCUMENTS

CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number		Office of Facilities Management	
TULLY CONSULTING GROUP CIVIL ENGINEERING & STORMWATER SOLUTIONS 180 SOUTH FIRST STREET, SUITE 9 DIXON, CA 95620 (707) 693-1926 (707) 471-0318 FAX		HILLIARD ARCHITECTS, INC. 251 Post Street, Suite 620 San Francisco, CA 94108-5017 Tel 415 989 6400, Fax 415 989 3056 www.HilliardArchitects.com		CIVIL DETAILS 2		MEDICAL SPECIALTIES BUILDING 648		612-122		Building Number BUILDING 648	
Revisions:		Date		Approved: Project Director		Location V.A. Mather		Drawing Number		C-8	
						Date 05/12/2014		Checked S.T.		Drawn R.T.	
								Dwg. of		Department of Veterans Affairs	